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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-04-21-01 **Date: 29-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Construction of Culverts in Hegadenagara Westren Side 1st Main and Both side Cross Road in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore
Customer's Reference	:	BBMP/EE/BTP/WO/43/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2017
Sample ID No	:	2017-04-21-01-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-04-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.95	–
2	Finess by Air permeablity method (m^2/kg, Min)	278.5	225m^2/kg, Min
3	Density (gm/cc)	3.19	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	190 minutes	Not less than 30 minutes

AE ward No 5
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-04-21-01** **Date: 29-04-2017**

Sample ID No : **2017-04-21-01-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
	28 Days	Test Report Date Due On 19-05-2017	Not less than 53 N/mm^2

Note:
The results pertain to the samples received and tested.
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Prepared by
Harshitha

FOR CIVIL Pro.

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-21-01** **Date: 27-04-2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of Drains and Construction of Culverts in Hegadenagara Westren Side 1st Main and Both side Cross Road in Ward No.06 Byatarayanapura Sub Division.

Agency : Executive Engineer, KRIDL, Bangalore

Customer's Reference : BBMP/EE/BTP/WO/43/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-2017

Sample ID No : 2017-04-21-01-03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 21-04-2017

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	103	189	18.9	81.1	60-95	75-100	85-100	95-100
4	1.18 mm	230	419	41.9	58.1	30-70	55-90	75-100	90-100
5	600 micron	178	597	59.7	40.3	15-34	35-59	60-79	80-100
6	300 micron	195	792	79.2	20.8	5-20	8-30	12-40	15-50
7	150 micron	120	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

AE ward No 6 ಹಿರಿಯ ಶ್ರೇಣಿಯ

10.ನೇ ವಲಯ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಬೆಟ್ಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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M : 9972924576 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-21-01** **Date: 27-04-2017**

Sample ID No : 2017-04-21-01-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.88	_
2	Specific Gravity	2.56	_
3	Material finer than 75 micron	7.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-21-01** **Date: 27-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Construction of Culverts in Hegadenagara Westren Side 1st Main and Both side Cross Road in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore
Customer's Reference	:	BBMP/EE/BTP/WO/43/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-04-2017
Sample ID No	:	2017-04-21-01-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	21-04-2017

AIS Ward No-5 ಕೀರ್ತಿ ಕೆಂಪಣ್ಣ

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	670	670	4.5	95.5	90-100
3	20 mm	5320	5990	39.9	60.1	30-70
4	10 mm	5010	11000	73.3	26.7	10-35
5	4.75 mm	3707	14707	98.0	2.0	0-5
6	Pan	293	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-21-01** **Date: 27-04-2017**

Sample ID No : 2017-04-21-01-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.2	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.5	–
6	Water Absorption(%)	0.22	–

Note:

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Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-21-01** **Date: 27-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Construction of Culverts in Hegadenagara Westren Side 1st Main and Both side Cross Road in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore
Customer Reference	:	BBMP/EE/BTP/WO/43/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2017
Sample ID No	:	2017-04-21-01-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-04-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	330	330	6.6	93.4	90-100
3	10 mm	2209	2539	50.78	49.22	25-55
4	4.75 mm	2400	4939	98.78	1.22	0-10
5	Pan	61	5000	100	0	–

AE ward no6 ಸಾಕ್ಷಿ ಸಹಿಯನ್ನು
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-21-01** **Date: 27-04-2017**

Sample ID No : 2017-04-21-01-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

AR ward No 6

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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End of Report

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-04-21-01** **Date: 27-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Constrution of Culverts in Hegadenagara Westren side 1st Main and Both Side Cross Road in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/43/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-17
Sample ID No	:	2017-04-21-01/04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	21-04-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	203	16484	32.850	1992.8	1997.1	Not less than 1800Kg/m^3
2	401	201	202	16281	32.560	1999.8		
3	402	201	201	16241	32.46	1998.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.170	31.874	4.07	4.12	Shall not be more than 10% by mass
2	33.220	31.860	4.27		
3	33.150	31.870	4.02		

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Lab ID : **CP-2017-04-21-01** **Date: 27-04-17**

Sample ID No : **2017-04-21-01/04**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	203	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	199	203	
3	402	201	202	
4	401	203	202	
5	404	202	201	
6	401	201	203	
7	403	203	201	
8	402	203	202	
9	401	202	203	
10	402	201	202	
11	402	202	201	
12	403	203	202	
13	400	201	203	
14	404	203	199	
15	402	201	202	
16	401	203	201	
17	402	201	199	
18	403	202	202	
19	402	201	201	
20	403	202	201	
Average of 20 blocks	**402**	**202**	**202**	

Page 2/3

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Lab ID : **CP-2017-04-21-01** **Date: 27-04-17**

Sample ID No : 2017-04-21-01/04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	203	81606	287.1	3.5	4.0
2	401	199	79799	321.7	4.0	
3	402	201	80802	355.2	4.4	
4	401	203	81403	292.8	3.6	
5	404	202	81608	378.6	4.6	
6	401	201	80601	318.9	4.0	
7	403	203	81809	342.6	4.2	
8	402	203	81606	273.9	3.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-26-01**	**Date: 29-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of Drains and Constı ution of Culverts in Hegadenagara Westren side 1st Main and Both Side Cross Road in Ward No.06 Byatarayanapura Sub Division.	
Agency	:	Executive Engineer, KRIDL, Bangalore.	
Customer's Reference	:	BBMP/EE/BTP/WO/43/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	26-04-17	
Sample ID No	:	2017-04-26-01/02	
Sample Type	:	JSW	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	28-04-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	10mm	0.612	572	688	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	10mm	Satisfactory	Satisfactory

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Prepared By:
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-26-01**	**Date: 29-04-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of Drains and Constrution of Culverts in Hegadenagara Westren side 1st Main and Both Side Cross Road in Ward No.06 Byatarayanapura Sub Division.	
Agency	:	Executive Engineer, KRIDL, Bangalore.	
Customer's Reference	:	BBMP/EE/BTP/WO/43/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	26-04-17	
Sample ID No	:	2017-04-26-01/01	
Sample Type	:	JSW	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	28-04-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	8mm	0.391	556	672	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	8mm	Satisfactory	Satisfactory

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-04-26-01** **Date: 29-04-17**
Customer	:	Assistant Executive Engineer, Byatarayana Sub Division, BBMP, Bangalore.
Address	:	Byatarayana Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Drains and Construction of Culverts in Hegadenagara Western Side 1st Main Road and Both side cross Road in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/s Executive Engineer, KRIDL, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/43/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-17
Sample ID No	:	2017-04-26-01/03
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	26/04/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.02	100.49	1.112	4419	95.9	21.7	20.2	25.2
2	Cover Slab-2	75.05	100.51	1.116	4423	96.8	21.9	20.4	25.4
3	Cover Slab-3	75.01	100.52	1.111	4418	94.9	21.5	20.0	25.0

Note:
The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-06-01** **Date: 09-05-2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of Drains and Construction of Culverts in Hegadenagara Westren Side 1st Main and Both side Cross Road in Ward No.06 Byatarayanapura Sub Division.

Agency : Executive Engineer, KRIDL, Bangalore

Customer's Reference : BBMP/EE/BTP/WO/43/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-05-2017

Sample ID No : 2017-05-06-01-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	02/05/2017	09/05/2017	150.11 X 150.19 X 150.15	22545	8.374	432.9	19.2	19.2
2	PCC	M20	02/05/2017	09/05/2017	150.23 X 150.16 X 150.12	22559	8.295	439.9	19.5	
3	PCC	M20	02/05/2017	09/05/2017	150.24 X 150.28 X 150.22	22578	8.337	426.7	18.9	

Note:
The results pertain to the samples received and tested.
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

AK ward No 6
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಡರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****